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Notice of Allowability	Application No.	Applicant(s)
	10/698,194	GANAPATHIAPPAN, SIVAPACKIA
	Examiner	Art Unit
	Tatyana Zalukaeva	1713
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	pplication. If not included
1. This communication is responsive to <u>09/07/2004</u> .		
2. ☑ The allowed claim(s) is/are <u>17-20</u> .		
3. The drawings filed on are accepted by the Examiner	:	
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of	been received. been received in Application No uments have been received in this	national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	tted. Note the attached EXAMINER s reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) \square including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the drawir e header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	it of BIOLOGICAL MATERIAL n OR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal D	gtont Application (DTC 452)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	Paper No./Mail Dat), 7. ⊠ Examiner's Amendn	e nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance
of Biological Material	9.	

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EXAMINER'S AMENDMENT/REASONS FOR ALLOWANCE

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Heminger, esq., on November 4, 2004.

The application has been amended as follows:

Please, cancel claims 1-16, 21-23

IN THE SPECIFICATION:

On page 1 after the words "This application is a divisional of prior Application No. 09/956,431 filed September 20, 2001", insert the clause ----now U.S. Patent No. 6,716,949.-----

Allowable Claims

2. Claims 17-20 are allowed over the prior art of record.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: The closest prior art of record Matyjaszewski et al (U.S. 6,121,371) discloses a method for preparing amphiphilic polymer particles obtained by ATRP process, having polydispersities shown

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in the last column of Table 1 (col.9, 10 and claim 39). As an example, the use of the AMPA/Cu(II)Br₂ initiator system results in emulsions with smaller particle sizes e.g. 100 nm, which anticipates the range as instantly claimed (col. 7, lines 5-10). The process is of polymerizing one or more radically (co)polymerizable monomers in the presence of a system comprising: (a) a suspending medium, (b) a monomer phase suspended in said suspending medium, comprising said monomers, (c) a surfactant, (d) an initiator having one or more radically transferable atoms or groups, (e) a catalyst system comprising: (i) a transition metal compound capable of participating in a redox cycle with the initiator and, (ii) one or more N--, O--, P--, or S-- containing ligands which coordinate in a sigmabond or in a pi-bond to the transition metal, any C containing compound which can coordinate in a pi-bond to the transition metal, or any carbon containing ligand which coordinates in a carbon-transition metal sigma-bond but which does not form a carboncarbon bond with said monomer under the polymerization conditions, wherein said catalyst system is at least partially soluble in both said monomer phase and in a polymer phase generated during said polymerizing, to form a (co)polymer emulsion or suspension. The process steps shown in the body and in the examples of the reference do not teach or suggest the the polymerization comprising separately preparing ATRP mix containing hydrophilic monomer and separately preparing an emulsion comprise a hydrophobic monomer, and then polymerizing ATRP mix with emulsion.

According to the instant specification, especially Example 6 on page 13 and description on pages 8 and 9 ATRP mix formation of the instant claim 1

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is interpreted as ATRP reaction TAKES PLACE, and then after some of

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ATRP polymer is formed the emulsion is added.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tatyana Zalukaeva whose telephone number is (571)

272-1115. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Tatyana Zalukaeva Primary Examiner

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